

D. Marschel

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Page 1 of 20

1631

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/237,183A

DATE: 05/30/2001

TIME: 11:13:58

Input Set : D:\Pa\_00143.rpt

Output Set: C:\CRF3\05302001\I237183A.raw

P5

#13

The

ENTERED

1 <110> APPLICANT: Cheikh, Nordine  
2 Fisher, Dane K.  
3 Liu, Jingdong  
5 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With  
6 Sucrose Pathway  
8 <130> FILE REFERENCE: 38-21(15089)B  
10 <140> CURRENT APPLICATION NUMBER: 09/237,183A  
11 <141> CURRENT FILING DATE: 1999-01-26  
13 <150> PRIOR APPLICATION NUMBER: US 60/067,000  
15 <151> PRIOR FILING DATE: 1997-11-24  
17 <160> NUMBER OF SEQ ID NOS: 2814  
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20 <211> LENGTH: 234  
21 <212> TYPE: DNA  
22 <213> ORGANISM: Zea mays  
24 <400> SEQUENCE: 1  
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28 agttcatgct gctgtacgca attggctgaa gaccaacata tcacacgatg ttgcttctag 120  
30 cactcgaata atctatggag gctctgttca aggataagaa gccagtcaag gtcatacaaga 180  
32 agaactcggc tgcagtcacc aagttcctcg atgagctggc taagattggc cgca 234  
35 <210> SEQ ID NO: 2  
36 <211> LENGTH: 303  
37 <212> TYPE: DNA  
38 <213> ORGANISM: Zea mays  
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44 ttgcagcctg atgagccctg tctgttagaa ataagtagtc atctgtgtt caacctcacc 120  
46 tgccacgccg taaagcctgt aggaggtgat ccgtgtgatg gtgtgccgtc accttcctgc 180  
48 ctttgctgat ttgcaacacc acggaacag aaaataacgc aagatgtcac attttttttg 240  
50 ttctcgtagt ccgtagacct tgtgtacgtt acgggagttc agttgcacgt tggcgatgta 300  
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56 <211> LENGTH: 232  
57 <212> TYPE: DNA  
58 <213> ORGANISM: Zea mays  
60 <400> SEQUENCE: 3  
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64 agacaaaatg ttaaggttat tgccctgcata ggcgagcttc tggaagagag ggaagcaggg 120  
66 aaaacttttg aagtatgttt tgagcagatg aaggcttttg cagatagtat ttcgcactgg 180  
68 gccgatgttg tgattgcata tgagcctgtt tgggctattg gaatcggtaa ag 232  
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72 <211> LENGTH: 287  
73 <212> TYPE: DNA  
74 <213> ORGANISM: Zea mays  
76 <400> SEQUENCE: 4  
78 gcatcgttgc catggctgga tccggcaagt tcttcgtcgg aggcaactgg aagtgcaatg 60  
80 gaacaaagga ctccattagc aaacttgtct ctgaattgaa tgctgctacc cttgaaactg 120

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84 ctggtcgcat tgaggtttct gctcagaatg tgtggattgg aaaaggagga gcctacaccg 240
86 gagagatcag tgcagaacaa ctggtggaca tcggctgtca atgggtt 287
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90 <211> LENGTH: 109
91 <212> TYPE: DNA
92 <213> ORGANISM: Zea mays
94 <400> SEQUENCE: 5
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102 <211> LENGTH: 239
103 <212> TYPE: DNA
104 <213> ORGANISM: Zea mays
106 <400> SEQUENCE: 6
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110 cgaagctccg cagcgaatct aatcgacacc tcagcgagat gggccgcaag ttcgtcgtcg 120
112 gtggcaactg gaaatgcaat ggaaccacag atcaggtcga gaagattgtc aaaaccctga 180
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118 <211> LENGTH: 258
119 <212> TYPE: DNA
120 <213> ORGANISM: Zea mays
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123 <221> NAME/KEY: unsure
124 <222> LOCATION: (1)..(258)
125 <223> OTHER INFORMATION: unsure at all n locations
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133 catggtgacg acatctgagc gcagagctct gttgggtgaa tcagtgatgt gctgctgata 180
135 cagttcatat gcactcactc acgtctcagg taatgctgca tcgtagacct tgacagaaga 240
137 gctgacacca tgatgtgt 258
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142 <212> TYPE: DNA
143 <213> ORGANISM: Zea mays
145 <220> FEATURE:
146 <221> NAME/KEY: unsure
147 <222> LOCATION: (1)..(98)
148 <223> OTHER INFORMATION: unsure at all n locations
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154 tgaaatgctt gttaatatgg gaattccttg gggtatta 98
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158 <211> LENGTH: 253
159 <212> TYPE: DNA
160 <213> ORGANISM: Zea mays
162 <400> SEQUENCE: 9

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164 aatccacctc aatacatctt aatacaccca aaatgccgcg ccaattcttc gtcggaggca 60
166 acttcaagat gaatggagtc actgactcta tcaagtccat cgtctctaac atcaacaact 120
168 ccaagcgtga cccgtccacc gaagtcgtca tcgcccctcc cgccatctat ctgcgctca 180
170 cccgcgcact tgccgacccc tcagtcggtg tctcggccca gaacgtctat gacaagccta 240
172 gcggtgctta tac 253
175 <210> SEQ ID NO: 10
176 <211> LENGTH: 290
177 <212> TYPE: DNA
178 <213> ORGANISM: Zea mays
180 <400> SEQUENCE: 10
182 ggtaaacctg caggtgccct gggtcatttt gggacattct gagcgcagag ctctgttggg 60
184 tgaatccagt gattttgttg ctgataaagt tgcatatgca ctactcaag gtctcaaggt 120
186 aattgcttgc attggtgaga cccttgagca gagagaggca ggaacaacaa tggatgttgt 180
188 tgctgcacaa acaaaggcta ttgctgaaaa aatatcagat tggacaaata ttgtgttggc 240
190 atatgaacca gtttgggcta ttggtaccgg caaagttgca actcctgctc 290
193 <210> SEQ ID NO: 11
194 <211> LENGTH: 256
195 <212> TYPE: DNA
196 <213> ORGANISM: Zea mays
198 <400> SEQUENCE: 11
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202 ggtaattgct tgcattgggt agacccttga gcagagagac gcaggaacaa caatggatgt 120
204 tgttgctgca caaacaagg ctattgctga aaaaatatca gattggacaa atattgttgt 180
206 ggcatatgaa ccagtttggg ctattggtac cggcaaagtt gcaattccgg ttcaggctca 240
208 ggaggtccat gatggc 256
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212 <211> LENGTH: 163
213 <212> TYPE: DNA
214 <213> ORGANISM: Zea mays
216 <400> SEQUENCE: 12
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220 tcatccacag aaccttggtg ggtagcctag cctccctggt acccctacgc ttaccatata 120
222 ctgagtggcg tcccttttgc ttggcgctcat gtgcccttct tgc 163
225 <210> SEQ ID NO: 13
226 <211> LENGTH: 310
227 <212> TYPE: DNA
228 <213> ORGANISM: Zea mays
230 <400> SEQUENCE: 13
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234 cactggtgaa gtcagtgtg agatgtctgt caaccttggt gttccctggg tcattcttgg 120
236 acactctgaa aggagagctc tgctgggaga atcaaataaa tttgttggag acaaggttgc 180
238 gtatgccctg tctcaggac taaaggctat tgcattgtgt ggtgagacct ttgagcagag 240
240 ggaggctggg tctaccatgg atgttgttgc tgcacaaaca aaagcaattg ctgagaagat 300
242 caaggactgg 310
245 <210> SEQ ID NO: 14
246 <211> LENGTH: 297
247 <212> TYPE: DNA
248 <213> ORGANISM: Zea mays
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252 gtcaagagcc agctgcgcca agagttccat gttgctgctc agaacttctg ggtgaagaag 60
254 ggaggtgctt tcaactggtga agtcagtgtc gagatgctcg tcaaccttgg tgttccctgg 120
256 gtcattcttg gacactctga aaggagagct ctgctgggag aatcaaatga atttggttga 180
258 gacaagggtg cgtatgccct gtctcaggga cttaaaggta ttgcatgtgt tggtagagacc 240
260 cttgagcaga gggaggctgg gtctaccatg gatgttggtg ctgcacaaac aaaagca 297

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263 &lt;210&gt; SEQ ID NO: 15

264 &lt;211&gt; LENGTH: 305

265 &lt;212&gt; TYPE: DNA

266 &lt;213&gt; ORGANISM: Zea mays

268 &lt;220&gt; FEATURE:

269 &lt;221&gt; NAME/KEY: unsure

270 &lt;222&gt; LOCATION: (1)..(305)

271 &lt;223&gt; OTHER INFORMATION: unsure at all n locations

273 &lt;400&gt; SEQUENCE: 15

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277 agggactaaa ggtcattgca tgtgttgggt agacacttga gcagagggag gctgggtcta 120
279 ccatggaggt tgttgctgca caaacaaaag caattgctga gaagatcaag gactggagca 180
281 acgtagtgtg tgcctatgaa ccagtttggg ctattggaac tggtaaagtt gccacccag 240
W--> 283 ctcaggctca ggaagtgcac gcctccctga gggattgggt anagaccaac gtcagccctg 300
285 aggtt 305

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288 &lt;210&gt; SEQ ID NO: 16

289 &lt;211&gt; LENGTH: 321

290 &lt;212&gt; TYPE: DNA

291 &lt;213&gt; ORGANISM: Zea mays

293 &lt;400&gt; SEQUENCE: 16

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295 cccacgcgtc cggtaaagtt gccacccag ctcaggctca ggaagtgcac gcctccctga 60
297 gggattggct aaagaccaat gccagccctg aggttgctga atctactagg atcatctacg 120
299 gaggtctgt aactgctgcg aactgcaaag agctagcagc acagcctgat gtcgatggtt 180
301 ttcttgctcg tggagcttct ttgaagcctg agttcatcga catcatcaac gcggccaccg 240
303 tgaagtccgc ttaagatgct acgctgaaga cgaacatact ttttttttgc tcaactgtgc 300
305 tatgtaagct agtagctttt g 321

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308 &lt;210&gt; SEQ ID NO: 17

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310 &lt;212&gt; TYPE: DNA

311 &lt;213&gt; ORGANISM: Zea mays

313 &lt;400&gt; SEQUENCE: 17

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317 tggttttctt gtcggtggag cttctttgaa gcctgagttc atcgacatca tcaacgcggc 120
319 caccgtgaag tccgcttaag atgctacgct gaagacgaac atactttttt ttgctcaac 180
321 tgtgctatgt aagctagtag cttttgcgca ggagcagaga ctgttttgcc tgccccaac 240
323 ttctagcttg agcttgctaa taatgtttac ctctggacgt atcaa 285

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326 &lt;210&gt; SEQ ID NO: 18

327 &lt;211&gt; LENGTH: 338

328 &lt;212&gt; TYPE: DNA

329 &lt;213&gt; ORGANISM: Zea mays

331 &lt;400&gt; SEQUENCE: 18

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333 ccaatctaga agcacccttc tccctctctc tctcttcgcc gtccgaagct ccgcacccca 60
335 atctaactga cacctcaccg agatgggccg caagttcttc gtcggtggca actggaaatg 120
337 caatggaacc acagatcagg tcgagaagat tgtcaaaacc ctgaatgaag gacaggttcc 180

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343 tgctttcact ggtgaagtca gtgctgagat gctcgtca 338
346 <210> SEQ ID NO: 19
347 <211> LENGTH: 298
348 <212> TYPE: DNA
349 <213> ORGANISM: Zea mays
351 <400> SEQUENCE: 19
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357 gccctgtctc agggactaaa ggtcattgca tgtgttggtg agaccctga gcagagggag 180
359 gctgggtcta ccatggatgt tgttgctgca caaacaaaag caattgctga gaagatcaag 240
361 gactggagca acgtagttgt tgcctatgaa ccagtttggg ctattggaac tggtaaag 298
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365 <211> LENGTH: 283
366 <212> TYPE: DNA
367 <213> ORGANISM: Zea mays
369 <400> SEQUENCE: 20
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373 aggagagctc tgctgggaga atcaaatgaa tttgttgagg acaagggtgc gtatgccctg 120
375 tctcaggagac taaaggatcat tgcatgtgtt ggtgagacc ttgagcagag ggaggctggg 180
377 tctaccatgg atgttggtgc tgcacaaaca aaagcaattg ctgagaagat caaggactgg 240
379 agcaacgtag ttgttgctta tgaaccagtt tgggctattg gaa 283
382 <210> SEQ ID NO: 21
383 <211> LENGTH: 290
384 <212> TYPE: DNA
385 <213> ORGANISM: Zea mays
387 <400> SEQUENCE: 21
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393 tggaactggt aaagttgcc cccagctca ggctcaggaa gtgcacgcct ccctgaggga 180
395 ttggctaaag accaatgcc gccctgaggt tgctgaatct actaggatca tctacggagg 240
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403 <213> ORGANISM: Zea mays
405 <400> SEQUENCE: 22
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411 tctgctggga gaatcaaatg aatttggttg agacaagggt gcgtatgcc tgtctcaggg 180
413 actaaaggtc attgcatgtg ttggtgagac ccttgagcag agggaggctg ggtctaccat 240
415 ggatgttggt gctgcacaaa caaaagcaat tgctgagaag atcaaggact 290
418 <210> SEQ ID NO: 23
419 <211> LENGTH: 276
420 <212> TYPE: DNA
421 <213> ORGANISM: Zea mays
423 <400> SEQUENCE: 23
425 cttggacact ctgaaaggag agctctgctg ggagaatcaa atgaattgt tggagacaag 60

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

file:///C:/Crf3/Outhold/VsrI237183A.htm

5/30/01